

**White Bros., Inc
Cumberland County
Westbrook, Maine
A-804-71-B-A**

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #1**

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

1. White Bros., Inc. (White Bros.) of Westbrook, Maine was issued Air Emission License A-804-71-A-N on September 27, 2000, permitting the operation of emission sources associated with their rock crushing facility.
2. White Bros. has requested an amendment to their license in order to add a cone crusher to their license.

B. Emission Equipment

White Bros. is licensed to operate the following equipment:

Licensed Equipment

<u>Equipment</u>	<u>Max. Capacity</u>	<u>Pollution Control Equipment</u>	<u>Date of Manufacture</u>
Primary crusher*	210 tons/hr	Spray nozzles	1985
Diesel Engine	2.04 MMBtu/hr	None	Unknown

*An initial performance test to meet the requirements of New Source Performance Standards (NSPS) Subpart OOO was successfully performed on the Primary crusher on October 10, 2003.

New Equipment

<u>Equipment</u>	<u>Process Rate (tons/hour)</u>	<u>Pollution Control Equipment</u>	<u>Date of Manufacture</u>
Cone crusher*	170 - 230	Spray nozzles	1972

*An initial performance test to meet the requirements of NSPS Subpart OOO was successfully performed on the Cone crusher on May 13, 2004.

White Bros. also operates two small diesel units that are considered insignificant due to their size, as defined in MEDEP Chapter 115, Appendix B. The diesel units (#218 and #220) are included on the Air Emission License for inventory purposes only.

C. Application Classification

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the “Significant Emission Levels” as defined in the Department’s regulations. This modification is determined to be a minor modification and has been processed as such.

II. BEST PRACTICAL TREATMENT (BPT)

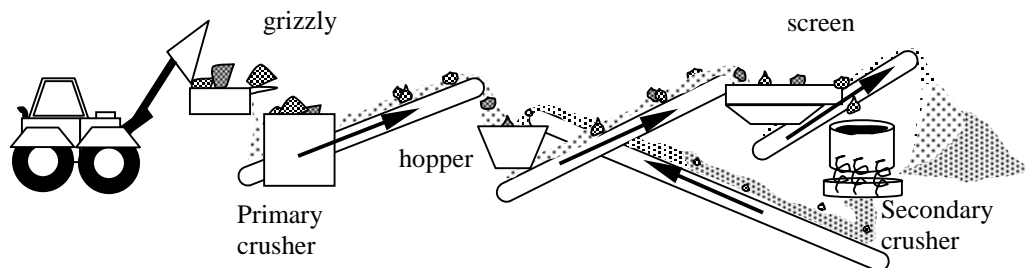
A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Department regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in Chapter 100 of the Department’s regulations. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

Before proceeding with the control requirements for each unit a general process description is provided to identify where the equipment fits into the process. The configuration of equipment shown below is an example process description, and is not intended to prevent White Brothers from changing their production line, nor does it limit them from doing so.

Process Description



At the start of the process, uncrushed material is introduced into a hopper by means of a front end loader. A grizzly removes small rocks and dirt, which fall

through onto the conveyor belt below. The large rocks enter the primary crusher. After passing through the primary jaw crusher, the once-crushed material is combined with the smaller material from the grizzly. The material enters a second hopper, where conveyors move it onto a screen. Material already crushed to size drops out the bottom of the screen and is conveyed to the finish pile, while oversize material passes through the secondary cone crusher, back to the hopper, and repeats the closed loop. White Brothers controls particulate matter generated through the process with water sprays on both its primary and secondary crushers, and at the transfer point at the second hopper.

B. Rock Crusher

The Cone Crusher is a portable Telesmith unit, model 489 S. The manufacturer indicates that the maximum capacity for this model will range between 170 and 230 tons/hour. Although the rock crusher was manufactured prior to the applicability date for EPA New Source Performance Standards (NSPS) Subpart OOO for Nonmetallic Mineral Processing Plants, records have not been submitted to the Department to demonstrate that the crusher has not undergone reconstruction or modification after August 31, 1983. Pursuant to 40 CFR 60 Subpart OOO, the rock crusher is therefore subject to the requirements of Subpart OOO.

The regulated pollutant from the rock crusher is particulate emissions. To meet the requirements of Best Available Control Technology (BACT) for control of particulate matter (PM) emissions from the rock crushers, White Bros. shall operate and maintain water sprays on the Cone Crusher as needed. Visible emissions from the Cone Crusher shall be limited to no greater than 10% opacity on a six (6) minute block average basis.

C. Stock Piles and Roadways

Visible emissions from a fugitive emission source shall not exceed 20% opacity, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20 percent in any one (1) hour.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-804-71-B-A subject to the conditions found in Air Emission License A-804-71-A-N, and in the following conditions:

The following replaces Condition (16) of License A-804-71-A-N:

(16) Rock Crushers

- A. White Bros. shall maintain spray nozzles for particulate control on all rock crushers and operate them as necessary to limit visible emissions to no greater than 10% opacity on a six 6-minute block average basis. [MEDEP Chapters 115 (BPT) and 101]
- B. White Bros. shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be kept on-site at the rock crushing location. [MEDEP Chapter 115, BPT]
- C. White Bros. shall maintain a log detailing and quantifying the hours of operation on a daily basis for all of rock crushers. The operation log shall be kept on-site at the rock crushing location. [MEDEP Chapter 115, BPT]
- D. The crushers shall not be attached or clamped via cable, chain, turnbuckle, bolt, or other means (except electrical connections) to any anchor, slab, or structure (including bedrock) that must be removed prior to transportation. [MEDEP Chapter 115, BPT]

The following are new conditions:

(23) New Source Performance Standards

The Cone crusher is subject to 40 CFR Part 60 Subparts A and OOO and White Bros. shall comply with the notification and record keeping requirements of 40 CFR Part 60.676, Part 60.4 and Part 60.7, except for Section (a)(2) of 60.7 per Subpart OOO, §60.676(h). Part 60.4 requires any notifications sent to the DEP also be sent to the EPA.

- (24) White Bros. shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard [Title 38 MRSA §605-C].

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(25) Payment of Fees

White Bros. shall pay the annual air emission license fee within 30 days of September 30th of each year. Pursuant to 38 MRSA §353-A, failure to pay this annual fee in the stated timeframe is sufficient grounds for revocation of the license under 38 MRSA §341-D, subsection 3.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2004.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAWN R. GALLAGHER, COMMISSIONER

The term of this license shall be five (5) years from the signature date above.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: September 8, 2003

Date of application acceptance: December 1, 2003

Date filed with the Board of Environmental Protection: _____

This Order prepared by Rachel E. Pilling, Bureau of Air Quality.